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DERWENT-ACC-NO: 1989-304165

DERWENT-WEEK: 199835

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TITLE: Rheology modifier - based on synthetic sodium magnesium  
phyllosilicate stevensite

PATENT-ASSIGNEE: MIZUSAWA CHEMICAL IND KK[MIZA]

PRIORITY-DATA: 1988JP-0049566 (March 4, 1988)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 01224041 A	September 7, 1989	N/A	000	N/A
JP 2780778 B2	July 30, 1998	N/A	008	B01J 013/00

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP 01224041A	N/A	1988JP-0049566	March 4, 1988
JP 2780778B2	N/A	1988JP-0049566	March 4, 1988
JP 2780778B2	Previous Publ.	JP 1224041	N/A

INT-CL (IPC): A23L001/03, A61K007/00, A61K009/10, A61K047/00,  
A61K047/02, B01F017/54, B01F017/55, B01J013/00, C01B033/20,  
C09D005/04, C09K003/00, C11D003/12, D06P001/67, D06P001/673

ABSTRACTED-PUB-NO: JP 01224041A

BASIC-ABSTRACT:

This rheology modifier is composed of synthetic stevensite which is stevensite type sodium magnesium phyllosilicate contg. only magnesium, sodium and silicon as the metal components. The modifier has a peak of X-ray diffraction for the crystal face spacing of 16-26 Angstrom when treated with ethylene glycol.

The synthetic stevensite has the following formula:

$\text{Mgx.Nay.Si}_4\text{O}_{10}(\text{OH})_2.\text{Naz}$

where x is at least 2; y is 0 to 0.1; z is 0 to 1, under the condition of x+y is less than 3. The synthetic stevensite has a gel stress of 5 or more. The water-soluble polymer is of cellulose deriv.

The synthetic stevensite is synthesised by hydrothermally reacting basic magnesium carbonate, sodium silicate or amorphous silica and NaOH. The water soluble polymer is, e.g., starch, carboxymethyl cellulose, arabian rubber, casein, polyvinyl alcohol.

**USE/ADVANTAGE** - The rheology modifier is used for improving emulsion, adjusting viscosity characteristic and dispersing pigments of lotion, cream, shampoo, rinse, hair cream, etc. It is also used for adjusting fluidity, increasing consistency and stabilising dispersed components of medicines, agricultural chemicals, paints, etc.

TITLE-TERMS: RHEOLOGICAL MODIFIED BASED SYNTHETIC SODIUM MAGNESIUM  
PHYLOSILICATE

DERWENT-CLASS: B07 C03 D21 E33

CPI-CODES: B04-B04A6; B04-C02A; B04-C02B; B04-C03B; B04-C03D; B12-M03;  
B12-M09; C04-B04A6; C04-C02A; C04-C02B; C04-C03B; C04-C03D;  
C12-M03; C12-M09; D08-B; E31-P05B;

CHEMICAL-CODES:

Chemical Indexing M1 \*02\*

Fragmentation Code

H401 H481 H521 H713 H721 J011 J111 J171 M210 M212  
M272 M280 M281 M311 M320 M321 M342 M349 M381 M391  
M423 M430 M510 M520 M530 M540 M782 M903 Q254 Q616  
Q619 R022 V600 V631 V713 V723 V741 V743 V752

Registry Numbers

1704X 1724X 1711X 1714X 89290

Chemical Indexing M2 \*01\*

Fragmentation Code

A111 A212 A940 B114 B713 B720 B833 C101 C108 C550  
C802 C804 C805 C807 M411 M430 M782 M903 M904 Q254  
Q616 Q619 R022

Markush Compounds

198942-18801-M

Registry Numbers

1704X 1724X 1711X 1714X 89290

Chemical Indexing M3 \*01\*

Fragmentation Code

A111 A212 A940 B114 B713 B720 B833 C101 C108 C550  
C802 C804 C805 C807 M411 M430 M782 M903 M904 Q254  
Q616 Q619 R022

Markush Compounds

198942-18801-M

Registry Numbers

1704X 1724X 1711X 1714X 89290

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1835U; 1842U ; 1863U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1989-134535